



MEETING LOG

SUBJECT: ASTM F15.42 Furniture Subcommittee Meeting Log

FY 24 OP PLAN ENTRY: Clothing Storage Unit (CSU) Tip-over, Recliners

DATE OF MEETING: 5/23/2024

LOCATION OF MEETING: Hybrid in-person (West Conshohocken, PA) and virtual

CPSC STAFF FILING MEETING LOG: Kristen Talcott

FILING DATE: 7/15/2024

CPSC ATTENDEE(S): In-person: Kristen Talcott (ESHF), Daniel Taxier (ESMC), Jacqueline Campbell (EXHR); Online: Rebekah Kempske (LSM), Hope Nesteruk (RMG), Priscilla Verdino (LSC), Adam Howie (LSM)

NON-CPSC ATTENDEE(S): Contact ASTM for the full attendee list

Summary of Meeting:

This subcommittee meeting covered work related to clothing storage unit (CSU) tip over, under the ASTM F2057 (*Standard Safety Specification for Clothing Storage Units*) and ASTM F3096 (*Standard Performance Specification for Tipover Restraint(s) Used with Clothing Storage Unit(s)*) standards. It also covered work related to potential future standards for Storage Chests (WK80158), Recliners (WK87355), and Foldaway Beds. CPSC staff's summary of the subcommittee discussion related to these topics is provided below.

CSU Tip Over:

- The ASTM F2057 precision and bias Inter-Laboratory Study (ILS) workgroup (WK82528) provided an update. The work group is looking at precision and bias in the three stability tests in ASTM F2057. The work group is waiting on data from a few labs and requires updated contact information. The work group will send the updated contact info to the ILS department.
- ASTM F2057 task group updates:
 - *Testing apparatus methods/weights:* The task group has not met since the last subcommittee meeting. The task group chair plans to schedule a meeting to work towards finalizing proposed changes for ballot.
 - *Remaining future ballot cleanup:* The task group has not met since October but is close to finalizing proposed changes for ballot. The task group formed a sub-group to do a final review before ballot.
 - *Operational Sliding Length (OSL):* The task group proposes updating the definition of OSL to largely match that in CPSC's pre-STURDY CSU rule. The task group chair plans to send



- proposed changes to ballot.
- *Test methods*: The task group plans editorial clean-up with no substantive changes for a future ballot.
 - *Attachment of tip restraints*: The task group is still exploring requirements that would accommodate variations between tip restraints and provide flexibility to align with wall studs. The task group plans to coordinate with ASTM F3096 instructions task group.
 - *Additional clamp test*: This task group's goal is to create requirements for conducting the pull stability test in Section 9.2.2.2 on doors without a handle or pull. The task group plans to meet and develop a proposal prior to the next ASTM F15.42 Furniture Subcommittee meeting.
- ASTM F3096 task group updates:
 - *Scope*: The task group is soliciting comments on a draft document. The task group plans to wait on other ASTM F3096 task group's work before finalizing the draft for ballot.
 - *Instructions*: The task group is still working on draft language and addressing feedback from task group members.
 - *Static/dynamic force*: The static portion of the task group is on hold until the dynamic work progresses. One of the task group chairs developed computer model for predicting dynamic forces. Task group members met in Chicago and conducted in-lab testing to measure forces and verify model; testing confirmed that the amount of slack in the anti-tip device had a large influence on the force. The task group chair will compare data to model and adjust model as needed.
 - *Material interaction*: A test lab is conducting testing on the effect of temperature and UV exposure on strength of plastic cable ties, which will help inform the task group's work.
 - *CSU dimensions survey*: A survey was sent to CSU manufactures to capture details on dimensions that can be used to inform other task group work.
 - Old business related to CSUs:
 - *Label update*: CPSC staff had previously asked ASTM to consider requiring a manufacture and date label on CSUs. The subcommittee formed a task group; CPSC staff joined the task group.
 - *Definition of "freestanding"*: Subcommittee members have questioned whether the "freestanding" scope exemption applies to products such as those in hospitality settings. The subcommittee formed a task group for further discussion; CPSC staff joined the task group.
 - New business related to CSUs:
 - *Wall anchor requirement*: During discussion of wall anchors, subcommittee members decided to form a new task group to explore a requirement that manufacturers of anti-tip devices include an appropriate wall anchor with their product; CPSC staff joined the task group.
 - *New anti-tip device technology*: A manufacturer is developing a new spring-loaded foot



device designed to extend when a CSU starts to tip to prevent it from fully tipping over. Subcommittee member had several questions and concerns related to this device, including what ASTM standard this device would be covered under, reliability, and potential for injury when the unit activates. The subcommittee formed a new task group for follow-up discussion; CPSC staff joined the task group.

- *Reference to ASTM F3096 in ASTM F2057:* A subcommittee member questioned how an update to ASTM F3096 would affect ASTM F2057, since ASTM F2057 requires that CSUs include an anti-tip device that meets ASTM F3096 but does not reference a specific version of the standard. The subcommittee formed a task group to explore a potential change to ASTM F2057 to further specify requirements for anti-tip devices; CPSC staff joined the task group.
- *Interlocking drawers:* A test lab and CPSC staff brought up concerns regarding CSU with interlocking drawers that can be defeated, for example when the drawers are opened simultaneously, or when the CSU tips. This issue will be considered under the Test methods task group; CPSC staff are members of the task group.

Storage Chests:

- The work group is working on resolving negatives from a ballot in August 2023. There is a new work group lead; the last meeting was held in January 2024. The work group is waiting on CPSC staff input on the definition of “unobstructed” and “permeable.”

Recliners:

- There are two task groups under this work group, related to scope and entrapment.
- *Scope:* A draft document was sent to the task group for review.
- *Entrapment:* The task group lead provided a presentation from a recent task group meeting on the entrapment hazards from the incident data and potential requirements to address these hazards. The work group is considering tests and probes based on those in other standards, including ASTM F1487, ASTM F2388, and UL 962. The task group is planning an in-person meeting.

Foldaway beds (wall beds):

- *Scope:* The task group is considering excluding the following items from scope: cabinet beds, sofa beds, camping beds, and convertible bed/chairs. The task group asked for additional members.
- *Data analysis:* The task group reviewed data provided by CPSC staff and summarized their characterization of incidents and considerations for the potential new ASTM standard.

There was an additional new business item related to the ASTM F2813-18(2023), *Standard Specification for Glass Used as a Horizontal Surface in Desks and Tables*. The subcommittee plans to ballot an update to the label to update reference to new version of the standard.

CPSC staff provided a liaison report covering the following topics:

- The Enforcement Policy for Warnings on Clothing Storage Units (November 15, 2023), which addresses the non-substantive variances between the required textual warning statements and the



example warning figures in the ASTM F2057-23 standard.¹

- Furniture-related recalls in the past 6 months, which included a mobile murphy bed, an anti-tip device, and a CSU.²
- Staff is aware of four deaths involving children trapped in motorized, adjustable beds since 2019. Staff is still looking into these and will provide more information when they can.

Next Steps: The next meeting of the ASTM F15.42 Furniture Subcommittee is planned for October 31-November 1, 2024.

¹ Link: <https://www.cpsc.gov/s3fs-public/Enforcement-Policy-Clothing-Storage-Units.pdf?VersionId=OeQuJLHJ4Ndf5nA6w0LeCePbh186oTF>

² Links: [Sourceone Ventures Recalls Windsor Queen Xtrabed™ Due to Injury and Tip Over Hazards; Sold Exclusively at Wayfair | CPSC.gov](#), [Alliance4Safety and 33 Furniture Companies Recall Millions of Plastic New Age Furniture Tip-over Restraint Kits Due to Tip-over and Entrapment Hazards to Children | CPSC.gov](#), [Children's Dressers Sold Exclusively at Rooms To Go Recalled Due to Tip-Over and Entrapment Hazards; Violation of Federal Regulation for Clothing Storage Units; Imported by LFN Limited | CPSC.gov](#)